

PATENT**PENDING CLAIMS**

Please amend the claims as follows:

1. (Original) A method for performing a search excursion from an original frequency on a wideband code division multiple access (WCDMA) system to a target frequency, comprising:
 - decoding at least one radio frame in a Transmission Time Interval (TTI) on the original frequency;
 - extracting a parameter value from the at least one radio frame and storing the parameter value in a memory element;
 - tuning to a target frequency after storing the parameter value;
 - tuning to the original frequency; and
 - decoding a subsequently received radio frame in the TTI by using the stored parameter value.
2. (Original) The method of Claim 1, wherein the target frequency is on a WCDMA system.
3. (Original) The method of Claim 1, wherein the target frequency is on a non-WCDMA system.
4. (Original) A method for timing a search excursion performed by a mobile station operating in a spread spectrum communications system, comprising:
 - detecting a first radio frame of a Transmission Time Interval (TTI) on an original frequency;
 - extracting a plurality of indicator bits from the first radio frame;
 - storing the plurality of indicator bits;
 - performing the search excursion on a target frequency, wherein the search excursion ends with a return to the original frequency; and

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decoding a subsequent radio frame of the TTI using the stored plurality of indicator bits from the first radio frame.

5. (Original) The method of Claim 4, wherein the first radio frame is 10 ms in duration.
6. (Original) The method of Claim 5, wherein performing the search excursion on the target frequency comprises tuning the mobile station to the target frequency, whereupon the mobile station collects and stores signal samples from the target frequency.
7. (Original) The method of Claim 6, wherein the method for timing the search excursion further comprises increasing the amount of power allocated to the subsequent radio frame of the TTI.
8. (Original) The method of Claim 6, wherein the method for timing the search excursion further comprises increasing the amount of power allocated to the first radio frame of the TTI.
9. (Original) An apparatus for performing a timed search excursion in a wireless communication system, comprising:
 - at least one memory element; and
 - a processor configured to execute a set of instructions stored on the at least one memory element, the set of instructions for:
 - decoding at least one radio frame in a Transmission Time Interval (TTI) on the original frequency;
 - extracting a parameter value from the at least one radio frame and storing the parameter value in the at least one memory element;
 - controlling a search excursion to a target frequency after storing the parameter value, wherein the search excursion ends with a return to the original frequency; and
 - decoding a subsequently received radio frame by using the stored parameter value.

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10. (Original) An apparatus for performing a timed search excursion in a wireless communication system, comprising:

means for decoding at least one radio frame in a Transmission Time Interval (TTI) on the original frequency;

means for extracting a parameter value from the at least one radio frame and storing the parameter value in at least one memory element;

means for performing a frequency search on a target frequency and returning to the original frequency, whereupon the means for decoding the at least one radio frame further decodes a subsequently received radio frame by using the stored parameter value.

11. (Original) An apparatus for performing a search excursion in a wireless communication system, comprising:

a decoder for decoding a plurality of radio frames in a Transmission Time Interval (TTI) on a first frequency and a plurality of radio frames in a TTI on a second frequency; and

a processor configured to extract an index from the first radio frame of the plurality of radio frames, wherein the index is related to a set of transmission properties, to store the index in a memory element, to control the search excursion onto the second frequency, and to control a return to the first frequency, whereupon the decoder uses the index to decode a subsequently received portion of the plurality of radio frames in the TTI on the first frequency.

12. (Original) The apparatus of Claim 11, wherein the processor is further configured to ignore a power control command from a base station in order to implement an increase in a downlink transmission power level before performing the search excursion.

13. (Original) The apparatus of Claim 11, wherein the processor is further configured to ignore a power control command from a base station in order to implement an increase in a downlink transmission power level after performing the search excursion.

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14. (Original) A method for timing a frequency search excursion in a wireless communications system having a mobile station exchanging communications with a base station, the method comprising:

determining at least one transmission parameter value from the first radio frame of the plurality of associated radio frames and storing the at least one transmission parameter value;

tuning the mobile station to the target frequency, whereupon the mobile station collects and stores signal samples from the target frequency;

tuning the mobile station to the original frequency;

processing the stored samples from the target frequency to obtain a result;

transmitting the result from processing the stored samples to the base station;

increasing the amount of power allocated to subsequently received radio frames of the plurality of associated radio frames; and

decoding the subsequently received frame symbols using the stored transmission parameter value.

15. (Original) The method of Claim 14 further comprising the step of keeping the transmission energy of a pilot channel equal to the transmission energy of the pilot channel prior to said frequency search excursion.

16. (Original) The method of Claim 14 further comprising the steps of:

determining whether said mobile station is capable of increasing the transmission power of said information channels to the desired extent; and

selectively increasing the transmission power of said information channels when said mobile station is not capable of increasing the transmission power of said information channels to the desired extent.

17. (Original) The method of Claim 16, wherein selectively increasing the transmission power of said information channels, comprises the steps of:

ranking the channels in accordance with the importance of having a non- interrupted reverse link transmission; and

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adjusting the transmission energies of said information channels in accordance with said ranking.

18. (Original) The method of Claim 17 wherein said information channels comprise a traffic channel and a common access channel.